Too Seng Wei(Too)

Malaysia citizen

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PERSONAL STATEMENT

Fresh Undergraduate with deep learning research interest. Also a fast learner and eager for a new challenge in the growing field of deep learning. Having high deep learning research interest, various skill set backgrounds might help in some way. I am looking for a more exciting challenge and growing opportunity in the deep learning(Computer Vision, Natural Language Processing) field at the moment.

EDUCATION

Multimedia University (MMU), Malaysia
Bachelor of Computer Science (Hons). Class of 2020. Current CGPA 3.43/4.00

CERTIFICATION

Deep Learning, a 5-course specialization by deeplearning.ai on Coursera. Certified in May 2019
Reinforcement Learning online course by David Silver on UCL. Unofficially Completed in Feb 2019

RESEARCH EXPERIENCES

Research Intern   Academia Sinica   April`2020 - Present
Face progression using Conditional Generative Adversarial Network deep learning model.

EMPLOYMENT EXPERIENCES

Research Assistant   ViprLab MMU   June`2019 - Feb` 2020
Study and build Affective Analysis deep learning model to interpret and understand human emotion from various emotional schema in story domain using transfer learning and modern architecture such as Transformer, BERT and LSTM.

Part-time Project Lead Developer   Axvel   April' 2019 - Nov' 2019
Led Front-end team and built a Single Page Application for a Courier Delivery Website at Sep` 2018 and joined as Lead Developer at April` 2019. Leading development team and in charge of rebranding and expansion of core products. Daily work also included doing code & design review and involved in both Frontend and Backend Development as well as bringing modern software development techniques such as continuous integration and continuous development.
Tech Stack: ExpressJS, VueJs, ReactJS, Parse, MongoDB

Freelance Game Programmer   Feb' 2019 - April' 2019
Successfully develop and launch a marketing campaign game for 22000 players across 3 months. Design and built 5 Hyper Casual Game for Marketing Campaign.
Tech Stack: Unity2D(C#), PHP, MySQL, PhaserJS

Part-time Full Stack Developer   BotAhead   Jun' 2018 - Dec' 2018
Doing front-end development for the company in-house product, ChatBot. Also, involved in Full-stack development for multiple Single Page Applications, including Currency Exchange System and Skill Sharing Marketplace for company outsource projects.
Tech Stack: VueJS, ReactJS, PHP (Laravel), MySQL

HONOUR & AWARDS

Fusionex Data Challenge 2019 - 2nd Runner Up Awards
Analyse the given dataset, followed by the demonstrate how explored data can be used to solve real-life problems. Some proposed suggestions included user profiling, retention analysis and prediction, as well as suggestions on campaign based on scientific data.

Pos Aviation Hackathon 2019 - 2nd Runner Up Awards

Design and build a real-time AR in-door navigation app with AI ChatBot assistant which aim to provide better and smarter end-to-end user experience for passengers in Airport. Archived and awarded 2nd Runner Up in the Hackathon main prize track.
Tech Stack: Unity3D(C#), Python

VR Hackathon 2018 - Finalist
Proposed and built a prototype on how Virtual Reality technology can create a convenient and immersive experience to control and oversee the real-world factory machines system in real-time. This project get into finalist and showcased in MMU Faculty of Engineering Digital Home Lab and Malaysia 5G Showcase Exhibition 2019.
Tech Stack: Unity3D(C#), Flask, Arduino (UNO), Socket.IO

Malaysian Computing Challenge (MCC) 2016 - Silver Award(First Runner Up)
Annual online competitive programming competition by Malaysian Informatics And Programming Society.

TALKS AND WORKSHOP

Student Tutor of Github Workshop
Provide tutoring to attendees on git and helps on bash command and git command.

Student Tutor of Woman Who Code KL Beginner Python Workshop
Provide tutoring on basic python and programming knowledge.

ADDITIONAL EXPERIENCES

Open Source Contributor   Open Promises Malaysia   Jan` 2019 - Present
Open Promises is a Civilian-led NGO that is based on recording and tracking promises made by politicians. Enhance existing portal user experience for promise tracker also building deep learning classifiers to boost up the productivity of promise tracker.
Tech Stack: VueJS, Python

President   Hackerspace MMU   August` 2019 - Present
Community-operated, where like-minded people meet and share their interest in tinkering with technology. Generally, all members work on their own side projects while learning from each other, and present project progress and learning outcomes to each other from time to time.

Vice President   IT Society MMU   June' 2017 - June' 2018
The official club for the Faculty of Computing and Informatics in MMU. Strength the bonding between committees and oversee all the events organized by IT Society. Led and organized multiple Workshop and Tech Career Days 2018.

Event Director   3 Days of Code 2018   April' 2018
Programming Contest and theme Hackathon for undergraduate students in Malaysia. Attracted a total 102 participants across West Malaysia, and secured RM 11000 sponsorship for events.

LANGUAGES & TECHS

Tech

- Python	- TensorFlow	- Pytorch	- Heroku
- AWS	- Java	- C++	- HTML
- CSS3(SCSS)	- MongoDB	- MySQL	- Javascript(VueJs, ReactJS, NodeJs)
- PHP(Laravel)	- Unity3D(C#)	- Docker	

Human:
- English
- Chinese(Mandarin & Hokkien)
- Malay

SIDE-PROJECTS

[Computer Vision] Satellite Image Classification

Conduct an ablation study between traditional machine learning and deep learning/transfer learning in satellite image classification. SIFT and SVM represent traditional methods while VGG and Neural Network with Attention mechanism stand for deep learning and transfer learning camp.

[Natural Language Processing] Sentiment Analysis   github.com/weiweitoo/airline-twitter-sentiment
Perform Sentiment Analysis(Positive, Neutral, Negative) on US Airline Twitter Data on Kaggle Challenge using ULMFiT.
Well-trained model get 86% accuracy.

[Reinforcement Learning] Poker-21 Game AI Agent   github.com/weiweitoo/easy21-rl
A reinforcement learning agent that learn to play a poker-21 game in a controlled environment using Q-Learning.
Well-trained agent are able to get 60% of winning rate versus a ruled-based Bot.

[Web Game] Can You Get 1024?   hitoo.co/CanYouGet1024
Casual HTML5 Game that challenge player response pace with the growing speed of difficulty.
Tech Stack: Javascript (PhaserJS)

[Mobile Game] Jump and Shoot   hitoo.co/JumpAndShoot/GamePlay.mp4
An attractive Casual Game with infinite level that challenge player perseverance, jumping on the moving ground.
Tech Stack: Unity2D(C#)